## DECLARATION AND POWER OF ATTORNEY/AGENT

As below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name: that I verily believe I am the original, first, and sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

Determination of Metal Ions in Solution by Photoluminescence Anisotropy

which application is: X the attached application (for original application)

\_ application Serial No. \_ filed \_, (for declaration not accompanying application)

that I have reviewed and understand the contents of the specification of the above identified application, including the claims, as amended by any amendment referred to above; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 C.F.R. 1.56, that I hereby claim foreign priority benefits under Title 35, United States Code §119, §172, or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified on said list any foreign application for patent or inventor's certificate of this invention having a filing date before that of the application on which priority is claimed:

Application Number

Country

Filing Date

Priority Claimed (yes or no)

I hereby claim the benefit of Title 35, United States Code §119(e) of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any material information under 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

**Application Number** 60/045,289

Filing Date May 1, 1997 Status (patented, pending, abandoned)
Pending

I hereby appoint Chalin A. Smith, Esq., Reg. No. P-41,569 as my agent to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to:

Intellectual Property Division
Office of Research and Development
University of Maryland, Baltimore
515 West Lombard Street, Suite 500
Baltimore, MD 21201-1602
Tel. 410-706-1874; Fax: 410-706-5035

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| Date X 4 2.4 78  Residence 7106 Bristol Road  Baltimore, MD 21212  Citizenship U.S.A. | First Inventor Richard B. Thompson Signature X Post Office Address 7106 Bristol Road Baltimore, MD 21212   |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Date Residence 25 Sherrin Road Newton, MA 02162 Citizenship                           | Second Inventor <u>Daniel Elbaum</u> Signature Post Office Address <u>25 Sherrin Road</u> Newton, MA 02162 |

Page 1 of 2

| Date × 4/24/98 Residence 612 Talon Court              |
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| Amold, MD 21012<br>Citizenship U.S.A.                 |
| Chizenship C.S.A.                                     |
| Date                                                  |
| Residence 160 Carnoustie Way                          |
| Media, PA 19063                                       |
| Citizenship                                           |
| Date Residence 9651 Hingston Downs Columbia, MD 21046 |
| Citizenship U.S.A.                                    |
| DateResidence _3-D Beacon Village                     |
| Burlington, MA 01803                                  |
| Citizenship P.R.C.                                    |
| Date x Montas, 1354                                   |
| Residence 2803 North Calvert Street                   |
| Baltimore, MD 21218                                   |
| Citizenship <u>U.S.A.</u>                             |

| Third Inventor Vincent L. Feliccia Signature x Vincent J. Feliccia Post Office Address 612 Talon Court Arnold, MD 21012 |
|-------------------------------------------------------------------------------------------------------------------------|
| Fourth Inventor David Christianson Signature Post Office Address 160 Carnoustie Way Media, PA 19063                     |
| Fifth Inventor Marcia W. Patchan Signature Post Office Address <u>9651 Hingston Downs</u> Columbia, MD 21046            |
| Sixth Inventor Zhengfang Ge Signature Post Office Address 3-D Beacon Village Burlington, MA 01803                       |
| Seventh Inventor Badri P. Maliwal Signature Aprilime Post Office Address 2803 North Calvert Street Baltimore, MD 21218  |



#### DECLARATION AND POWER OF ATTORNEY/AGENT

As below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name: that I verily believe I am the original, first, and sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

Determination of Metal ions in Solution by Photoluminescence Anisotropy

which application is:
\_the attached application
(for original application)

X application Serial No. 09/071.351 filed 4/30/98, and amended on \_ (for declaration not accompanying application)

that I have reviewed and understand the contents of the specification of the above identified application, including the claims, as amended by any amendment referred to above; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 C.F.R. 1.56, that I hereby claim foreign priority benefits under Title 35. United States Code §119, §172, or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified on said list any foreign application for patent or inventor's certificate of this invention having a filing date before that of the application on which priority is claimed:

Application Number

Country

Filing Date

Priority Claimed (yes or no)

I hereby claim the benefit of Title 35. United States Code §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35. United States Code, §112, I acknowledge my duty to disclose any material information under 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Number

Filing Date

Status (patented, pending, abandoned)

hompson

Thereby appoint Chalin A. Smith, Reg. No. 41,569 as my agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to:

Office of Research and Development University of Maryland, Baltimore 515 West Lombard Street, Suite 500 Baltimore, Maryland 21201-1602

Thereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| Date                                  | First Inventor Richard B. T                                          |
|---------------------------------------|----------------------------------------------------------------------|
| Residence 7106 Bristol Road           | Signature                                                            |
| Enitimore MD 21212  Trizenship U.S.A. | Post Office Address 7106   Baltimore, MD 21212                       |
| One 7/4/95                            | Second Inventor Daniel Elb                                           |
| testiones 25 Sherrin Road             | Signature                                                            |
| Dividità MA 02162 02462 05            | Post Office Address <u>25 Sha</u><br>Newton, MA <del>92162</del> 024 |
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Page 1 of 2

| Date                                        |
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| Baltimore, MD 21218                         |
| Citizenship Malaysia                        |
| • ———                                       |
| Date                                        |
| Residence 9651 Hingston Downs               |
| Columbia, MD 21046                          |
| Citizenship <u>U.S.A.</u>                   |
| •                                           |
| Date                                        |
| Date Residence 25 Sherrin Road              |
| Newton, MA 02162                            |
| Citizenship                                 |
| 00                                          |
| Date x 5-20-98 Residence 160 Carnoustie Way |
| Residence 160 Camoustie Way                 |
| Media, PA 19063<br>Citizenship x USA        |
| Citizenship x US/F                          |
|                                             |
| Date                                        |
| Residence 3-D Beacon Village                |
| Burlington, MA 01803                        |
| Citizenship P.R.C.                          |

| Fourth Inventor Marcia W. Patchan  Signature Post O ffice Address 9651 Hingston Downs Columbia, MD 21046  Fifth Inventor Daniel Elbaum  Signature Post Office Address 25 Sherrin Road Newton, MA 02162  Sixth Inventor David Christianson Signature X Post Office Address 160 Carnoustie Way Media, PA 19063  Seventh Inventor Zhengfang Ge Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Columbia, MD 21046  Fifth InventorDaniel Elbaum  Signature Post Office Address25 Sherrin RoadNewton, MA 02162  Sixth InventorDavid Christianson  Signature x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Columbia, MD 21046  Fifth InventorDaniel Elbaum  Signature Post Office Address25 Sherrin RoadNewton, MA 02162  Sixth InventorDavid Christianson  Signature x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Fifth Inventor Daniel Elbaum Signature Post Office Address 25 Sherrin Road Newton, MA 02162  Sixth Inventor David Christianson Signature David Christianson Signa |
| Signature Post Office Address25 Sherrin RoadNewton, MA 02162  Sixth InventorDavid Christianson Signature x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Post Office Address 160 Carnoustie Way Media, PA 19063  Seventh Inventor Zhengfang Ge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Post Office Address 160 Carnoustie Way Media, PA 19063  Seventh Inventor Zhengfang Ge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Media, PA 19063  Seventh Inventor Zhengfang Ge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Media, PA 19063  Seventh Inventor Zhengfang Ge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Seventh Inventor Zhengfang Ge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Burlington, MA 01803                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Date Residence 612 Talon Court Amold, MD 21012 Citizenship U.S A.                         |
|-------------------------------------------------------------------------------------------|
| Date Residence 160 Carnoustie Way Media, PA 19063 Citizenship                             |
| Date X May 2, 1998  Residence 9681 Hingston Downs  Columbia, MD 21046  Citizenship U.S.A. |
| Date                                                                                      |
| Date                                                                                      |

| Date                                                                                     |
|------------------------------------------------------------------------------------------|
| Date Residence 160 Carnoustie Way Media, PA 19063                                        |
| Citizenship                                                                              |
| Date Residence 9651 Hingston Downs Columbia, MD 21046 Citizenship U.S.A.                 |
| Date X May 7, 78  Residence 3-D Beacon Village  Burlington, MA 01803  Citizenship P.R.C. |
| Date Residence 2803 North Calvert Street Baltimore, MD 21218 Citizenship U.S.A.          |

| Third Inventor Vincent L. Feliccia Signature Post Office Address 612 Talon Court Amold, MD 21012 |
|--------------------------------------------------------------------------------------------------|
| Attion, AD Style                                                                                 |
| Fourth Inventor David Christianson                                                               |
| Signature                                                                                        |
| Post Office Address 160 Carnoustie Way                                                           |
| Media, PA 19063                                                                                  |
|                                                                                                  |
| Fifth Inventor Marcia W. Patchan                                                                 |
| Signature                                                                                        |
| Post Office Address 9651 Hingston Downs                                                          |
| Columbia, MD 21046                                                                               |
| Cordinola, 1.42 2.5                                                                              |
| Sixth Inventor Zhengfang Ge                                                                      |
| Signature X 2 2                                                                                  |
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| Burlington, MA 01803                                                                             |
| puttington, i.m. o. o.o.                                                                         |
| Seventh Inventor Badri P. Maliwal                                                                |
| ——————————————————————————————————————                                                           |
| Signature                                                                                        |
|                                                                                                  |
| Baltimore, MD 21218                                                                              |

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FAX NO. 7032058050

PATENT 3645-101P

P. 03

## IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Richard B. THOMPSON

Appl. No.:

09/071,351

Group:

1743

Filed:

April 30, 1998

Examiner: SODERQUIST

For:

DETERMINATION OF METAL IONS IN SOLUTION

BY PHOTOLUMINESCENCE

## REVOCATION OF POWER OF ATTORNEY, SUBSTITUTE FOWER OF ATTORNEY, AND CHANGE IN CORRESPONDENCE ADDRESS

Assistant Commissioner for Patents Washington, DC 20231

Sir:

The Assignee of the above-identified patent application or University of Maryland, Baltimore, having a issued patent, 520 business office at ors West Lombard Street, Suite 500, Office of Research and Development, Baltimore, Maryland 21201-1602, evidenced by the enclosed Certificate Under 37 C.F.R. § 3.73(b) showing chain of title, hereby revokes any and all previous powers of attorney for the above-sdentified patent application or issued patent and hereby appoints:

| RAYMOND C STEWART JOSEPH A. KOLASCH BERNARD L SWEENEY CHARLES GORENSTEIN LEONARD R SVENSON ANDREW D. METKLE JOE MCKINNEY MUNCY JOHN W. HALLEY GARY D. YACURA | (Reg. No. 21,066<br>(Reg. No. 24,449<br>(Reg. No. 24,449<br>(Reg. No. 30,330)<br>(Reg. No. 32,388)<br>(Reg. No. 32,314)<br>(Reg. No. 32,314)<br>(Reg. No. 32,88) | TERREIL C. BIRCH JAMES M. SLATTERY MICHAEL K. MUTTER GERALD M. MURPHY, JR TERBY L. CLARK MARC S. WEINER DONALD J. CASTELLANO | [Reg No 19,382] [Reg No 28,380] [Reg No 29,680] [Reg No 28,977] [Reg No 32,644] [Reg No 32,191] [Reg No 35,094] |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
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of the firm of Birch, Stewart, Rolasch & Birch, LLP as the attorneys of the Assignee to receive all correspondence relating to the above identified application or patent and to transact all

P. 04

77 17 2000 THE 09:05 AM BSKB

FAX NO. 7032058050

Docket No. 3645-0101P

correspondence address is:

BIRCH, STEWART, KOLASCH & BIRCH, LLP or Customer No. 2292 P.O. Box /47 Falls Church, VA 22040~0747

The undersigned (whose title is supplied below) is empowered to sign this Revocation and Substitute Power of Attorney on behalf of the Assignee.

hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are publishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may Jeopardize the validity of the application or any patent issued thereon

10/17/00 -

Joann A. Boughman, Ph.D.

Typed or printed name

Dean, Graduate School and Vice President, Academic Affairs

Enclosure:

Certificate Under 37 C.F.R. § 3,73(b) showing chain of title.

(Res 04/19/2000)

00T-17 2000 TUE 09:06 AM BSKB

FAX NO. 7032058050

P. 05

PATENT 3645-0101P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Richard B. THOMPSON et al.

App' No.:

09/071,351

Group:

Filed:

April 30, 1998

Examiner: A. SODERQUIST

Patent No.:

Issue Date:

For:

DETERMINATION OF METAL IONS IN SOLUTION

BY PHOTOLUMINESCENCE ANISOTROPY

# CERTIFICATE UNDER 37 C.F R. 5 3.73(b) SHOWING CHAIN OF TITLE

Assistant Commissioner for Patents Washington, DC 20231

Sir:

University of Maryland, Baltimore, a University, certifies that it is the assignee of the patent application or issued patent identified above by virtue of either:

An assignment from the inventor(s) of the patent application or issued patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 9359, Frame 0389-0392, or for which a Α. 🔯 copy thereof is attached.

~ OR -

A chain of title from the inventor(s), of the patent application or issued patent identified above, to the current assignee as shown below:

Stone \_\_\_\_ To: The document was recorded in the Patent and Trademark Office at Reel , Frame \_\_\_\_, or for which & copy thereof is attached. OFT 17-2000 TUE 09:06 AM BSKB

FAX NO. 7032058050

P. 08

Appl. No. 09/071,351

| 2. | From:                                                 |         |     |                    |                 |                      |
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|    | To: The document was Office at Reel thereof is attach | , Frame | the | Patent<br>, or for | and T<br>r whic | rademark<br>h a copy |

3. From:
To:
The document was recorded in the Patent and Trademark
Office at Reel , Frame , or for which a copy
thereof is attached.

Additional documents in the chain of title are attached.

Copies of assignments or other documents in the chain of title are attached

The undersigned has reviewed all the documents in the chain of title of the patent application or issued patent identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued theroon.

10/17/00

Joann A. Boughman, Ph.D.

Typed or printed name

Dean, Graduate School and

Vice Bresident, Academic Affairs

(Acre. 04/19/2000)

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FAX NO. 7032058050

P. 08

#### ASSIONMENT

Wherein, We.

Richard B. Thompson 7106 Bristol Road Baltimore, MD 21212

Vincent L. Feliccia 612 Talon Court Amold, MD 21012

Badri P. Maliwal 2803 North Culvert Street Baltimore, MD 21218

herematter culted Assignor, have co-invented certain improvements in:

# Determination of Metal Ions in Solution by Photoluminescence Anisotropy

and executed U.S. Provisional Patent Application Serial No. 60/045.289, filed May 1, 1997, for Letters Patent of the United States of America; and

Whereas, the University of Maryland, Baltimore, 520 West Lombard Street, Baltimore, MD 21201 (assignce) desires to acquire our entire right, title, and interest in the application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for One Dollar (\$1.00) and other valuable consideration, receipt whereof is hereby acknowledged

We, the above named assignors, hereby sell, assign, and transfer to the above named assignee, its successors and assigns, our entire right, title and interest in the application and the invention disclosed therein for the United States of America and all countries foreign thereto, including rights of priority under the International convention of Paris (1883) as amended, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

| Signed at | nd sealed | 11/2-             |
|-----------|-----------|-------------------|
| Date      | 4/29/98   | Opmaline          |
| Date      | 412) (58  | Vincent of Elican |
| Date      | 4/24/19   | YMOS I            |

State on Makey bried County of Buthouse City Subscribed and sworn to before me this 29th day of April

Expensations and regulated for recording but is prima for a execution under 15 U.S.C. § 261). **Notary Public** 

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BML 090

79\78\5888 TT:05 GE85-984-8 LP

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FAX NO. 7032058050

P. 10

#### ASSIGNMENT

Whereas, L

Marcia W. Patchan 9651 Hingston Downs Columbia, MD 21046

hereinaties culted assignor, have co-invented certain improvements in:

Determination of Metal Ions in Solution by Photoluminescence Anisotropy

and excepted U.S. Provisional Patent Application No. 60/045.289 filed May 1, 1997 for Letters Patent of the United States; and

Whereas, University of Maryland, Baltimore, 520 West Lombard Street, Baltimore, MD 21201 (assignee), desires to acquire my ontire right, title, and interest in the application and invention, and to any United States and fureign patents to be obtained therefor;

Now therefore, for One Dollar (\$1.00) and other valuable consideration, receipt whereof is hereby acknowledged.

I, the above named assignor, hereby sell, assign, and transfer to the above named assignee. its successors and assigns, my entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim under 35 U.S.C. \$119, and I request the Commissioner of Patents to issue any Latters Patent granted upon the invention set lorth in the application to the assignee, its successors and assigns; and I hereby execute without further consideration all pupers deemed necessary by the assignes in connection with the United States application when called upon to do so by the assigned,

Signed and scaled

Marcia W Patchen

Date: May 2, 1998

State of Manyland

County of 1-local of

Subscribed and sworn to before me this 2nd day of May

BLISS SCHEUMACK NOTARY PUBLIC STATE OF MARYLAND My Commission Expires February 20, 2003-

To any other-manufaction and required for recording but in prime facts evidence of execution ander 35 U.S.C. § 281).

SMU QRD

989-901-016

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FAX NO. 7032058050

P. 11

#### **ASSIGNMENT**

Whereas, L

Zhengfang Ge 3-D Buncon Village Burlington, MA 01803

hereinatter called assignor, have co-tovented certain improvements in:

# Determination of Metal Ions in Solution by Photoluminescence Anisotropy

and executed U.S. Provisional Patent Application No. 60/145.289, filed May 1, 1997, for Letters Patent of the United States; and

Whereus, University of Maryland, Baltimore, 520 West Lombard Street, Baltimore, MD 21201 (assignee), desires to acquire my entire right, title, and interest in the application and navention, and to any United States and foreign patents to be obtained therefor,

Now therefore, for One Dollar (\$1.00) and other valuable consideration, receipt whereof is hereby acknowledged.

I, the above numed assignor, hereby sell, ussign, and transfer to the above named easignee, its successors and assigns, my entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim under 35 U.S.C. \$119, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignes, its successors and assigns; and I hereby execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignce.

Signed and realed

2 3 man - 2 - Jan

State of Ministern chairments

Subscribed and sworn to before me this 5 day of MAL

125th Zonon-numerication out required for recording but is prima fairly evidence of execution under 35 U.S.C. § 261).

MARY T. RAYMOND Notary Public My Commission Dales April 23, 2004

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FAX NO. 7032058050

P. 12

Date: August 4, 1998

Express Mail Label No. EL076214261US

Thereby certify that this paper or fee is being deposited with the United States Postal Service using "Express Mail Post Office to Addresseo" service under 37 CRF 1-10 on the date indicated above and is addressed to "Box Assistant Commissioner for Patents, Washington, D.C. 20231"

Signed

Wordley S. Duelle Dorothy S. Doepke

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FAX NO. 7032058050

P. 13

PATENT 3645-101P

# IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Richard B. THOMPSON

Appl. No.:

09/071,351

Group:

1743

Filed:

April 30, 1998

Examiner: SODERQUIST

For:

DETERMINATION OF METAL LONS IN SOLUTION BY PHOTOLUMINESCENCE

REVOCATION OF POWER OF ATTORNEY, SUBSTITUTE POWER OF ATTORNEY, AND CHANGE IN CORRESPONDENCE ADDRESS

Assistant Commissioner for Patents Washington, DC 20231

Sir.

The Assignee of the above-identified patent application or issued patent, University of Pennsylvania, having a business office at 3700 Market Street, Suite 300, Intellectual Property Office, Philadelphia, Pennsylvania 19104-3147, as evidenced by the enclosed Certificate Under 37 C.F.R. § 3.73(b) showing chain of title, hereby revokes any and all previous powers of attorney for the above-identified patent application or issued patent, and hereby appoints:

| RAYMOND C. STEMART JOSEPH A KOLASCH BERNARD L. SWEENEY CHARLES GORENSTEIN LEONARD R. SVENSSON ANDREW D. MEIKLE JCE MCKINNEY MUNCY JOHN W. BAILEY GARY D. YACURA | (Reg. No. 21,066)<br>(Reg. No. 27,461)<br>(Reg. No. 24,446)<br>(Reg. No. 29,271)<br>(Reg. No. 30,330)<br>(Rug. No. 32,866)<br>(Reg. No. 32,334)<br>(Reg. No. 32,881)<br>(Reg. No. 35,416) | TERRELL C. BIRCH JAMES M. SLATTERY MICHAEL K. MUTTER GERALC M. MURPHY, JR. TERRY L CLARK MARC S. WEINER DONALD J. DALEY JOHN A. CASTELLANO | Reg. No. 19.3<br>(Reg. No. 20.3<br>(Reg. No. 29.6<br>(Reg. No. 20.9<br>(Reg. No. 32.6<br>(Reg. No. 32.1<br>(Reg. No. 34.3<br>(Rug. No. 35.0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| JOSEPH A KOLASCH BERNARD L. SWEENEY CHARLES GORENSTEIN LEONARD R. SVENSSON ANDREW C. MEIKLE JCE MCKINNEY MUNCY                                                  | (Reg. No. 27, (61)<br>(Reg. No. 24, 446)<br>(Reg. No. 29, 271)<br>(Reg. No. 30, 130)<br>(Reg. No. 32, 866)<br>(Reg. No. 32, 34)<br>(Reg. No. 32, 981)                                     | JAMES M. SLATTERY MICHAEL K. MUTTER GERALO M. MURPHY, JR. TERRY L CLARK MARC S. WEINER DONALD J. DALEY                                     | (Reg. No. 29,6<br>(Reg. No. 20,9<br>(Reg. No. 32,6<br>(Reg. No. 32,1<br>(Reg. No. 34,1                                                      |

of the firm of Birch, Stewart, Kolasch & Birch, LLP as the attorneys of the Assignee to receive all correspondence relating to the above-identified application or patent and to transact all

P. 14

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FAX NO. 7032058050

Docket No. 3645-0101P

pusiness in the United States Patent and Trademark Office substitution and connected therewith, with full power of revocation, and the Assignee ratifies any act done by the Assignee's attorneys in respect of this patent. The new correspondence address is:

BIRCH, STEWART, KOLASCH & BIRCH, LLP or Customer No. 2292 P.O. Box 747 Falls Church, VA 22040-0747

The undersigned (whose title is supplied below) is empowered to sign this Revocation and Substitute Power of Attorney on behalf of the Assignee,

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature LOUIS P. BERNEMAN MANAGING DIRECTOR

CENTER PORTECHNOLOGY TRANSPER

Title

Enclosure:

Certificate Under 37 C.F.R. § 3.73(b) showing chain of title.

(DAV 00714/2003)

## **ASSIGNMENT**

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to Institute, the understands, hereby scil(s) and assign(s) to The Tractions of the University of Personalization. a non-profit conjugation organization and existing the laws of the Commonwealth of Personalization bewing a principal plane of business at 3700 Market Busit, Builto 300, Philadelphia, Ferronalization 19104-1147 (the Assignor) their enters rights, titles and interests

check applicable box(cs)

III for the United States of America (ex defined in 35 U.S.C. § 100),
III and throughout the world,

in the intention frames so Detection of Metal loss and Diver Analytes by Phonogener Anisotropy for which applications.) for putent was made in the United States of America on Mar 1, 1997, (also known as provisional US application 60/045,789), and on Agril 20, 1998 (also known as Non-provisional Applications No. 00/071.351), and in any and all applications thereon, in any and all Leasure Petants, in any and all research detections and all research, renewally researchingtons of such applications of Leasure Petants, extensions, restoration, renewally researching applications of the same extensions of such applications, such social right, title and interest to be held and enjoyed by the undersigned had the analysement and asked not discovered.

The underspied agree(s) to account all papers accounts to consule expense in connection with such applications as the recommunity or corresponding application(s) thereof and also to ensure expense assignments in connection with such applications as the recommunity or corresponding applications.

The undersigned agree(s) in custotte all papers necessary is connection with any interdepasts that may be declared concerning the application(s) or my continuing, divisional, reliable or sustainabless application thereof and to cooperate with the Assignes in every way execute in obtaining evidence and going forward with such interdepend.

The insterrighed hereby represents that undersigned has (they have) full right to convey undersigned entire interest havin and true undersigned has (they have) not encurred, and will not execute, any agreement in conflict therewish.

The undersigned hereby general and Townsond and Crew LLP, Two Embarcadoro Couler, Righth Floor, San Francisco, CA 94111-1934, power to irrated in this assignment any further identification that saty be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WITHREOF, executed by the undersigned on the date opposite her name.

|                        | contor. Aller Man                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TATE OF PENNSYLVANIA   |                                                                                                                                                                       |
| DUNTY OF PHILADELPHIA: | 19 78, before me. BERNALTEP. PHILED T (Soul)                                                                                                                          |
| n this 12-74 day of    | 19 78, before me. SCAPAR IE                                                                                                                                           |
| Deniel Elbrum          | coved to me on the besis of entirfactory evidence to be the present(s) whose new<br>broadedness to me that he/she/hop concates the same in his/hortheir sucherised or |

Denic Liberty

[V] proved to me on the basis of extinfactory evidence to be the parameter sufficient appearing in a subscribed to the within instrument and achnowledged to me that he/she/they concurs the same in his/har/their authorized expecting the same the within instrument and achnowledged to me that he/she/they concurs the same in his/har/their authorized expecting the person(s), or the entity upon behelf of which the parameter are unusual that by his/her/their augmature(s) on the matriament.

WITNESS my band and official scal.

Signature Season States Cat 19, 2001

PAGE 18

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#### ASSIGNMENT

In curvation of the sum of One Deller (\$1.00) or equivalent and other good and value ble consideration paid to David Christman, the unity signed, barely self(s) and assign(s) to The Trackers of the Delegants of Ferraphysics, a non-profit corporation or quantum the laws of the Communication between the laws of the Communication of Perceptuals brough a principal place of business at 3700 Market Street, Salts 300, Philadelphia, there are 10004-3147 the Aminus Market and markets. Poursylvana 19104-3147 (the Auxignee) their entire rights, tilles and microstra

check applicable bar(cs) E for the United States of America (as defined to 35 U.S.C. § 100), (II) and throughout the world.

the distinction become as Desection of Metal lone and Other Analysis by Flandanines Anisotropy for which application (i) for patent was made in the United States of Arrange on May 1, 1997, (also become a provisional US application 60/045, 269), and on Anal 10, 1998 (also become a Non-provisional Application. No. 09/071, 151), and in any and all applications thereon, in any and all Letters Penals of the content of the conte thereof to the full end of the serm or terms for which such Letters Principle (some, such entire right, title and interest to be total and enjoyed by the undereligible has the emigratum and sale not the above-named Assigned to the same enters as they would have been hald and enjoyed by the undereligible has the emigratum and sale not become a first total and enjoyed by the undereligible has the emigratum and sale not become at the same enters as they would have been hald and enjoyed by the undereligible has the emigratum and sale not become at the same enters as they would have been hald and enjoyed by the undereligible has the emigratum and sale not become a supplied to the same enters are the same enters as the same enters are the same enters and the same enters are the same enters are the same enters are the same enters and the same enters are the sam

The water signed agreets) to make all papers passesses; to account with the application (1) and any explanation of the same To a manufacture of the content of t Assigned they them necessary or expedient.

The undersigned agree(s) to current all papers accountry in elemented with any interference that user be declared conserring the applicaments) or any community, divisional, reissue or restainmation application thereof and to cooperate with the Amigrae in every way procedule in obtaining evidence and going forward with such interference.

The under signed hereby represents that undersigned his (they have) field right to convey undersigned entire interest herein assigned, and that anticycigned has (they have) not executed, and will not execute, any agreement in socilies therewise.

The undersigned hereby grant(s) Townsend and Townsend and Craw LLP, Two Embarcadore Center, Eights Floor, Sen Francisco. 1.A 94:11-3834, power to insert in this assignment my further identification that may be recovery or destrable in order to comply with the rules of the United States Prical and Trademark Office for recordation of this document.

IN WITHINKS WHEREOF, ensecuted by the undersigned on the descriptionise her numer

6/2/38 Signature of Inventor.

STATE OF PENNSYLVANIA

COUNTY OF PHILADELPHIA

1998, before me, FEECIA 3. Williams (Soet) Outline July dry of JUNE

1ter smally appeared \_\_\_\_\_ David Christianson

subscribed to the within instrument and acknowledged to me that be/she/liny executed the same in his/her/fack anthonized capacity (vm). and this by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) ented, execute the instrument.

WITNESS my hand and official scale

Signature

Teleconor Williams Noting Public 1901/00/400 This depote County

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P 15

TATENT 91010-546

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Richard B. THOMPSON et al.

Appl. No.:

09/071,351

Group:

1743

Filed:

April 30, 1998

Examiner: A. SODERQUIST

Patent No.:

Issue Date:

FOY:

DETERMINATION OF METAL IONS IN SOLUTION

BY PHOTOLUMINESCENCE ANISOTROPY

## CERTIFICATE UNDER 37 C.F.R. § 3.73(b) SHOWING CRAIN OF TITLE

Assistant Commissioner for Patents Washington, DC 20231

Sir:

University of Pennsylvania, a University, certifies that it is the assignee of the patent application or issued patent identified above by virtue of either:

An assignment from the inventor(s) of the patent application or issued patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 9359, Frame 0398-0400, or for which a copy thereof is attached.

- OR -

B. 
A chain of title from the inventor(s), of the patent application or issued patent identified above, to the current assignee as shown below:

To:
The document was incorded in the Patent and Trademark
Office at Reel \_\_\_\_\_, Frame \_\_\_\_, or for which a copy
thereof is attached.

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Appl. No. 09/071,351

| 2. | From: To: The document was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached. |
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To:

The document was recorded in the Patent and Trademark
Office at Reel \_\_\_\_\_, or for which a copy
thereof is attached.

Additional documents in the chain of title are attached.

Copies of assignments or other documents in the chain of title are attached

The undersigned has reviewed all the documents in the chain of title of the patent application or issued patent identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

10/18/00

5 17 1

Signature

LOUIS P. BERNEMAN

CENTER FOR TECHNOLOGY TRANSFER

Title

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Patent and Tradomark Office
ASSSTANT SCORTARY AND COMMISSIONER OF PATENTS AND TRACEMARKS Washington, D.C. 20231

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IN VERSITY OF MARYLAND, BALTIMORE CHALIN A. SMITH, EBQ. OFFICE OF RUSEARCH AND DEVELOPMENT WEST LOMBARD STREET, SUITE 500 BALTIMORE, MD 21201-1602



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED RELOW

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RECORDATION DATE: 08/04/1998

REEL/FRAME: 9359/0389 NUMBER OF PAGES: 4

HRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR: THOMPSON, RICHARD B. DDC DATE: 04/29/1998

ASSIGNOR: BADRT P MALIWAT

DOC DATE: 04/29/1998

ASSIGNOR: GE, Z IENGFANG DOC DATE: 05/05/1998

ASSIGNOF: FELICCIA, VINCENT L. DOC DATE: 04/29/1998

ARSIGNOR -PATCHAN, MARCIA W. DOC DATE: 05/02/1998

ASSIGNEE: BAUTIMORE, UNIVERSITY OF MARYLAND 515 WEST LOMBARD STREET, SUITE 500 OFFICE OF RESEARCH AND DEVELOPMENT HALTIMORE, MARYLAND 21201-1602

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08-07-1998 SHEET -- --100787101 10 to, Hoster that Commissioner of Patents and Trademarks: Please record the attached original documents 2 Name and address of receiving 8-4-91 . Name of conveying party(ws): Name: University of March Vincent L. Feliccia Richard B. Thompson Marciu W. Patchun Internal Address: Office of Research and Davelopment Badis P. Mahwal Zhenglang Ge Additional numers) of conveying party(nes) attached? ( Yes (X) No Street Address: 515 West Lombard Street, Suite 500 3. Notice of conveyance 21P: 21201-1602 State: MD. City: Baltimore ( ) Merger (X + Assignorent)( ) Change of Nume Secretly Appropriett Additional name(s) & address(es) attached: ( )Yes (X) No Exercised Date. Application nomber(s) or patent number\*(#); It this document is being filed together with a new application, the execution date of the application is the Provisional application B. Petent No.(s) A. Parent Application No.(6) 09/071.351 filed April 30, 1998 1 ) Yek (X) No Additional numbers effected 1 6. Total number of applications and patents involved: Name and address to party to whom correspondence concerning document should be mailed. \$ 40.00 7. Total fee (37 CFR 3.41) Kame Chille A Smith, Esq. Facinal Address Office of Research and Development ( ) Enclosed ( X ) Authorized in he charged to deposit account Chiversity of Maryland Baltimore 21-0684 8. Deposit account number: Sund Addies 515 West Laurburd Street, Suite 500 (Attach duplicate copy of this page if paying by deposit account) ZIP: 21201-1602 Sinto MD ors B<u>រៀបមេ</u>ទី DO NOT USE THIS SPACE The Lord of the Samuele less and belief, the foregoing information is true and correct and any attached copy is a true copy of the o Standson and Significati 8- 4-98 est walde um itt Chalm & Smith User Total number of pages comprising cover sheet: Name of Person Signing 01071251 \$10684 11 000000 04/07/1994 SERTIN 40,00 CH 01 FC:541 10/16/2009 17:02 5685-387-814

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ASSIGNT SCREENRY AND COMMERCES OF PATENTS AND TRADEMARKS Westington, D.C. 2023

OCTOBER 26, 1998

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CHALIN A. SMITH, ESQ. OFFICE OF RESEARCH AND DEVELOPMENT 515 WEST LONGARD STREET SHITE 500 BALTIMORE, MD 21201-1602

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU HAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 701-105-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231. SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/05/1998

REEL/FRAME: 9359/0398 NUMBER OF PACES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTERPET (SEE DOCUMENT FOR DETAILS).

Nasicnok: ELBAUM, DANIEL DOC DATE: 07/12/1998

ASSIGNOR: CHRISTIANSON, DAVID DOC DATE: 07/12/1998

ASSIGNEE: PENNSTLUANIA, UNIVERSITY OF 3700 MARKET STREET, SUITE 300 INTELLECTUAL PROPERTY OFFICE PHILADELPHIA, PENNSYLVANIA

19104-3147

SERTAL NUMBER: 09071351

PATENT NUMBER:

FILING DATE: 04/30/1998

ISSUE DATE:



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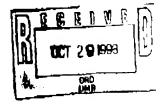
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~ र हस्म ~ 0B-07-1998 U. J. DEPARTMENT OF COMMERCE **3HBBT** 100787102 rective the attached uniqued documen 2. Name and address of manifold uty(itt): Щ 8-5-98 1. Name of conveying (cirty(les) Name: University of Pennsylvania Daniel Ethaum, David Christianson Internal Address: Intellectual Property Office Autofiliated transcess of conveying purishes) attached? Street Address: TOO Market Street, Street 300 Diver 1 No 1. Nature of conveyance. ZIP: 19104-3147 State: PA City Philadelphia ) Maryor (X.) Assignment ( ) Change of Name Ca Security Agreement Additional name(s) & address(ss) anathers: ( )Yes ( ) No. Chines - Carraina Date. A Application number(x) or parent numbers(s): It this document is being filled together with a new application, the execution date of the application is : \_ Provisiumal application B. Patent No.(6) ... A. Patent Appliculum No. (5) <u>(19/07) .351</u>. ПІСІ April 30, 1998 ( ) Yes ( ) No (. Total number of applications and patents involved: , Additional numbers attached? 5. Name and address of party to where correspondence concerning document should be mailed: \$ 40.00 7. Total for (37 CFR 341) Name Chalin A. Smith, Est. Internal Address Office of Research and Davologuent ( ) linelesed (X) Authorized to be charged to deposits account I niversity of Maryland, Baltimore 21-0684 R Deposit account number: Succe Andrews 515 West Comband Storet, Suite 500 21P: 212(11-1602 | (Attach depileate cupy of this page if paying by deposit account) State: MD. Civ Bultimore DO NOT USE THIS SPACE to the less of my knowledge and belief, the forequing information is true and correct and any attached copy is a true copy of the B-4-98 en med deciment Chalin A. Smith Esc. Total number of pages comprising cover short: Za Segnulare

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